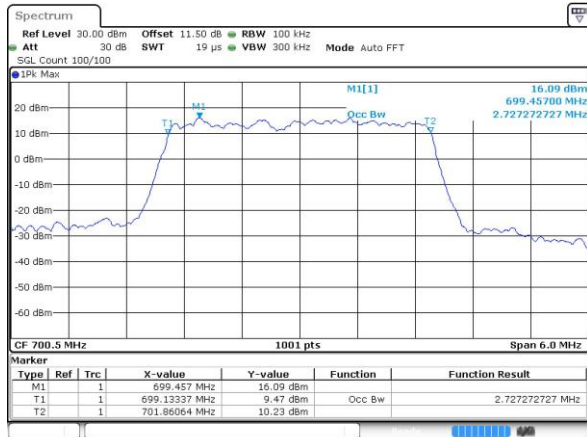




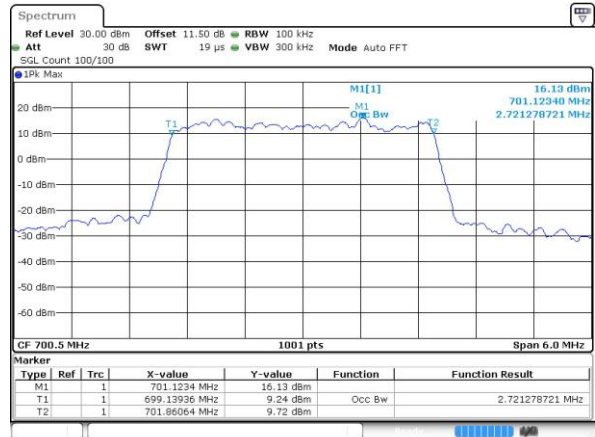
LTE Band 12

Lowest Channel / 3MHz / QPSK



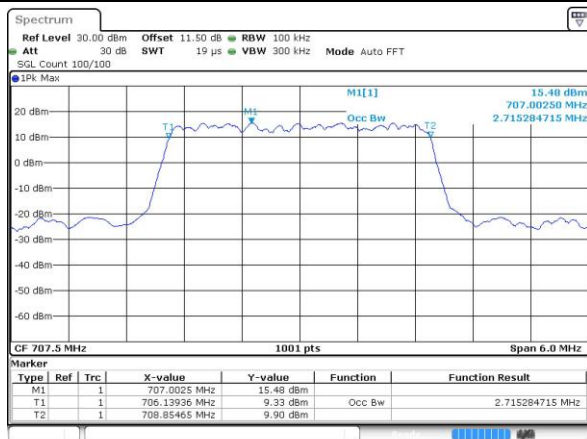
Date: 5 APR 2018 07:16:10

Lowest Channel / 3MHz / 16QAM



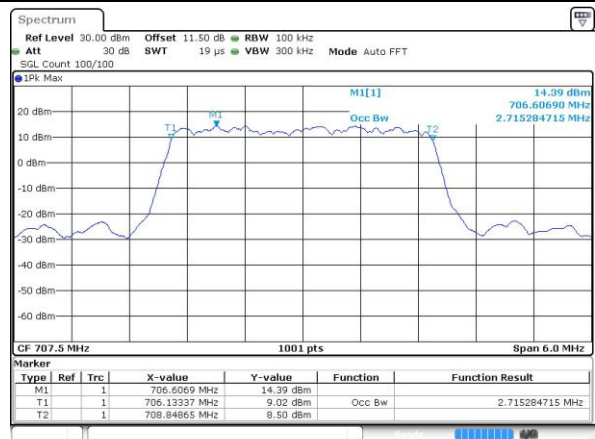
Date: 5 APR 2018 07:16:20

Middle Channel / 3MHz / QPSK



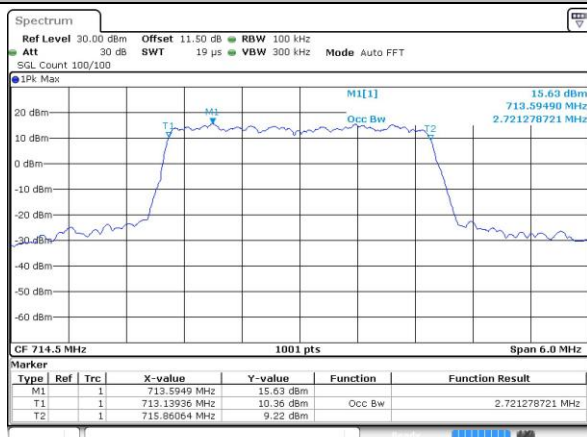
Date: 5 APR 2018 07:23:27

Middle Channel / 3MHz / 16QAM



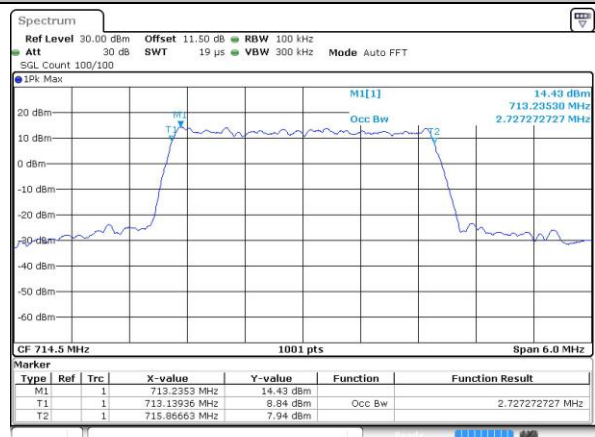
Date: 5 APR 2018 07:23:17

Highest Channel / 3MHz / QPSK



Date: 5 APR 2018 07:25:47

Highest Channel / 3MHz / 16QAM

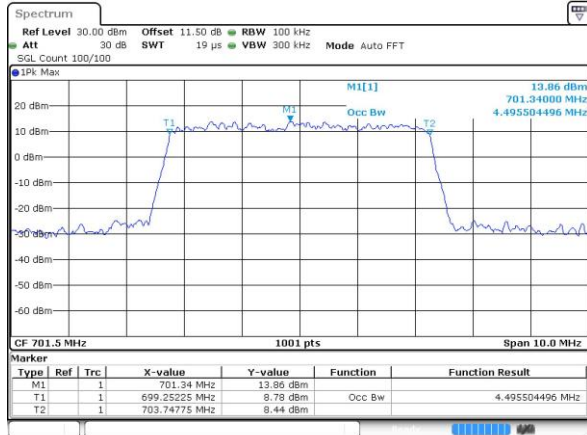


Date: 5 APR 2018 07:25:57



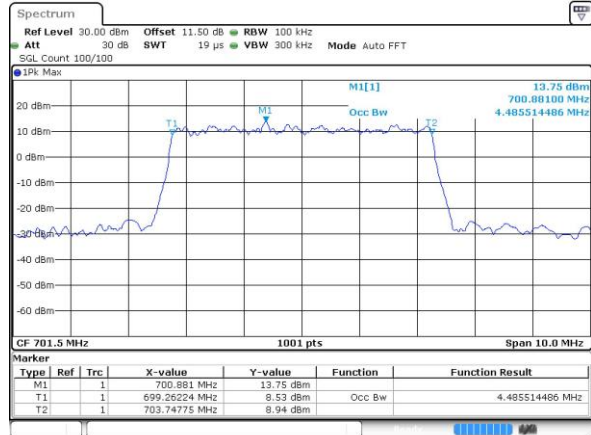
LTE Band 12

Lowest Channel / 5MHz / QPSK



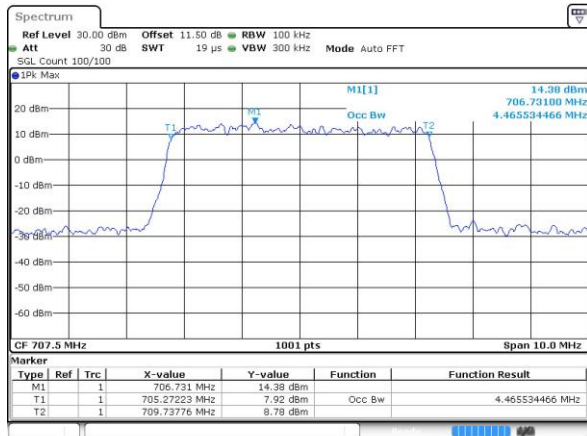
Date: 5 APR 2018 07:32:54

Lowest Channel / 5MHz / 16QAM



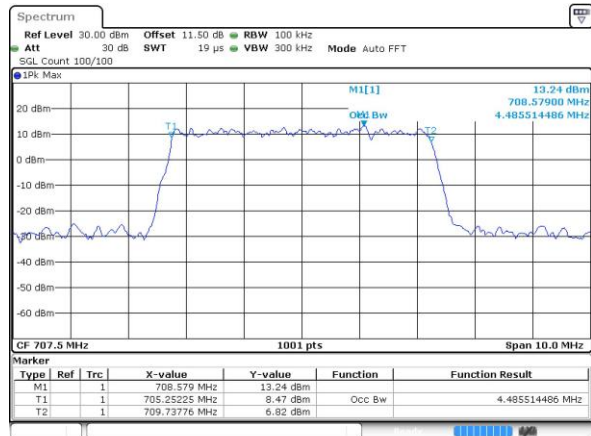
Date: 5 APR 2018 07:33:04

Middle Channel / 5MHz / QPSK



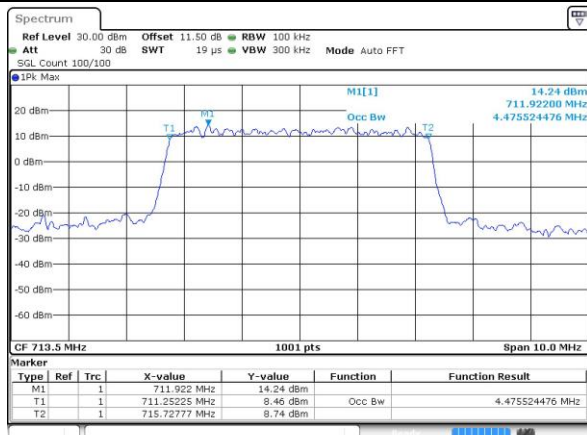
Date: 5 APR 2018 07:40:11

Middle Channel / 5MHz / 16QAM



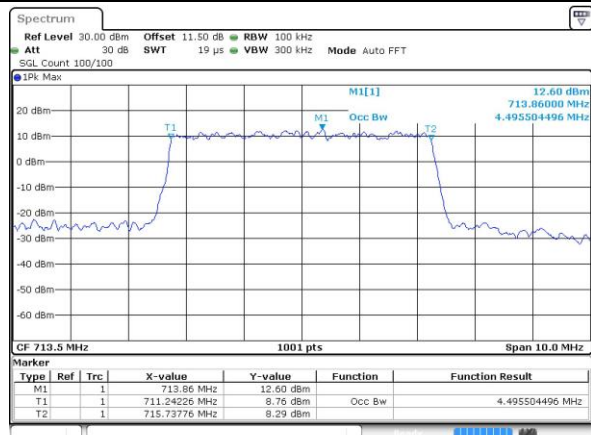
Date: 5 APR 2018 07:40:01

Highest Channel / 5MHz / QPSK



Date: 5 APR 2018 07:42:31

Highest Channel / 5MHz / 16QAM

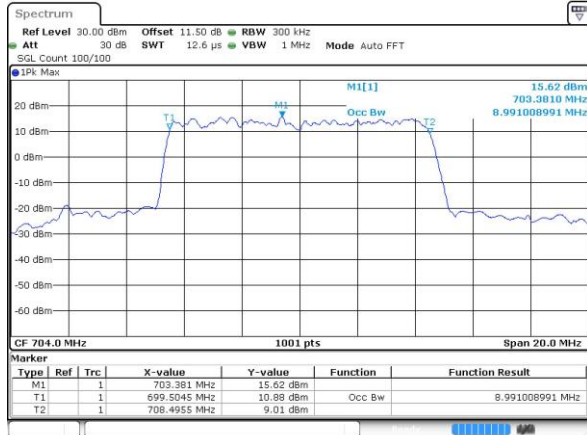


Date: 5 APR 2018 07:42:41

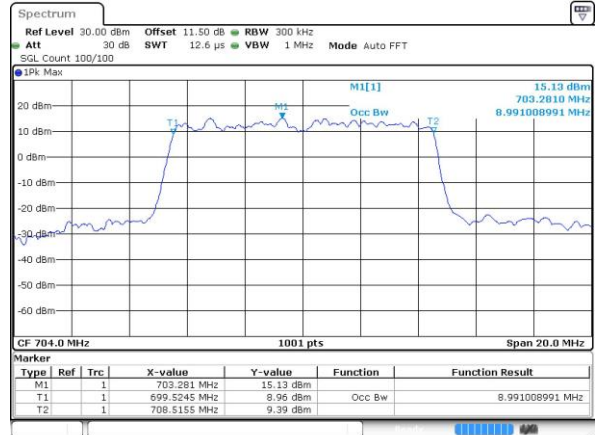


LTE Band 12

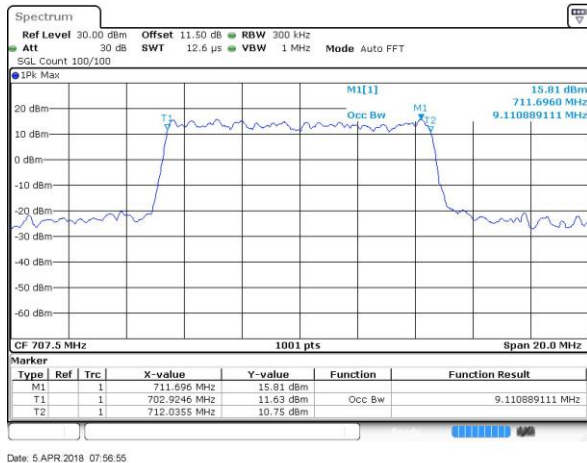
Lowest Channel / 10MHz / QPSK



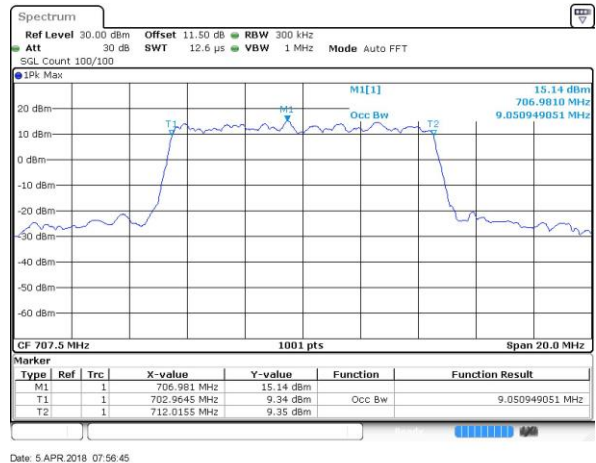
Lowest Channel / 10MHz / 16QAM



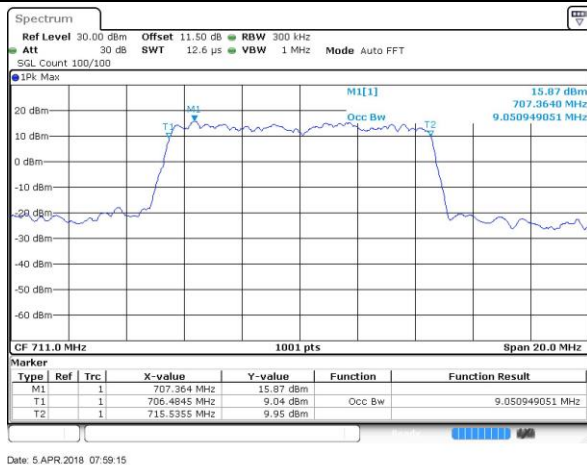
Middle Channel / 10MHz / QPSK



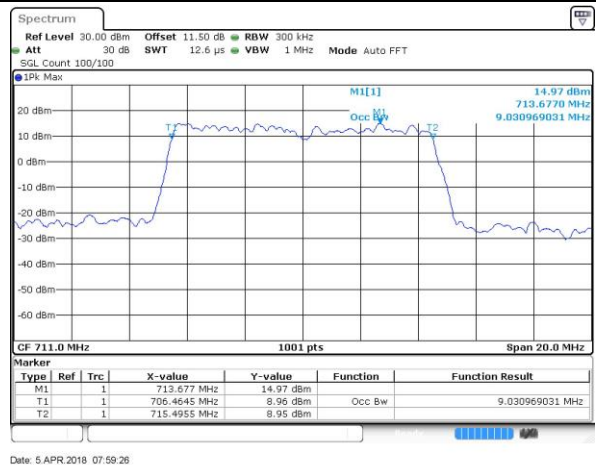
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



Highest Channel / 10MHz / 16QAM





Conducted Band Edge

LTE Band 12 / 1.4MHz / QPSK

Lowest Band Edge / 1 RB



Highest Band Edge / 1RB



Lowest Band Edge / Full RB



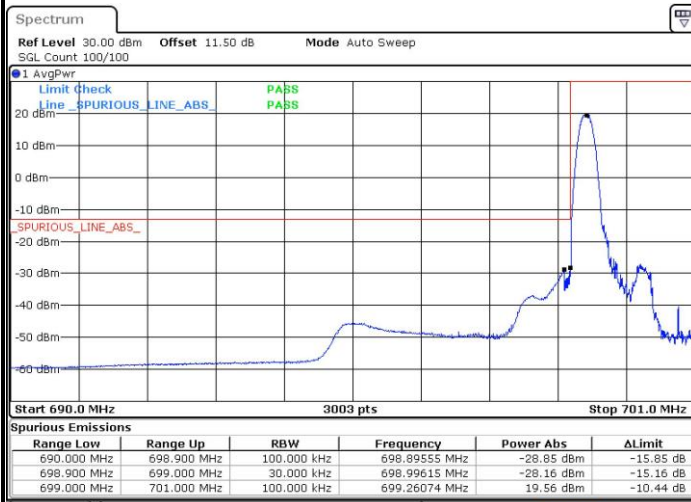
Highest Band Edge / Full RB





LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



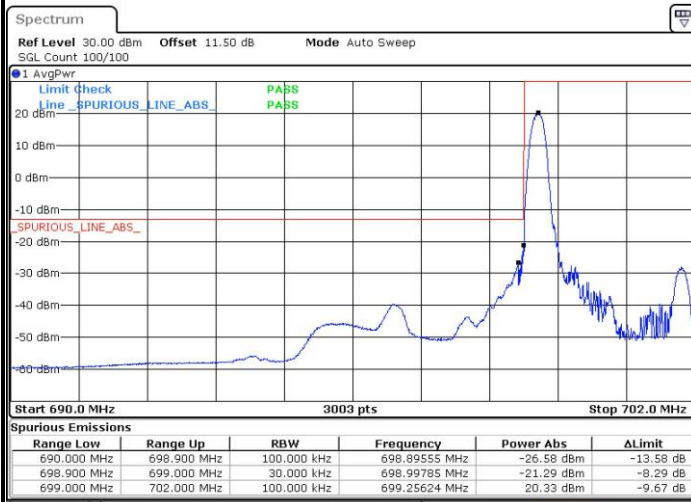
Highest Band Edge / Full RB



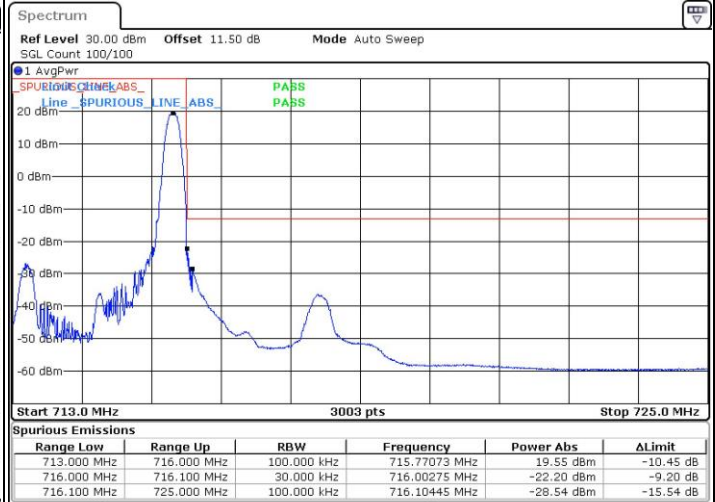


LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / 1RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



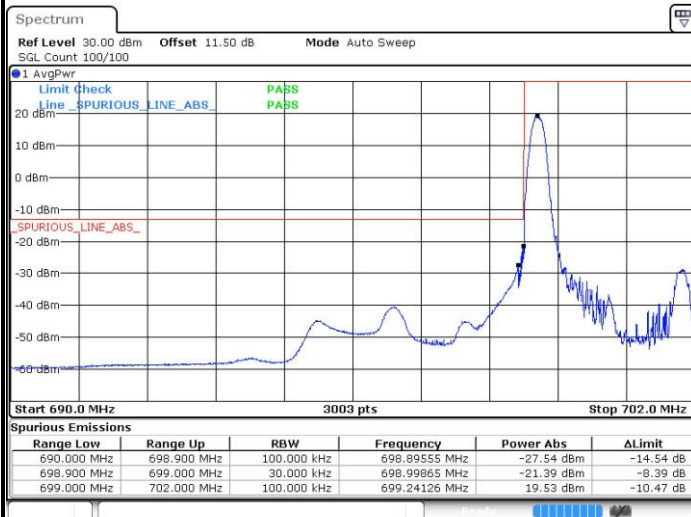
Highest Band Edge / Full RB





LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



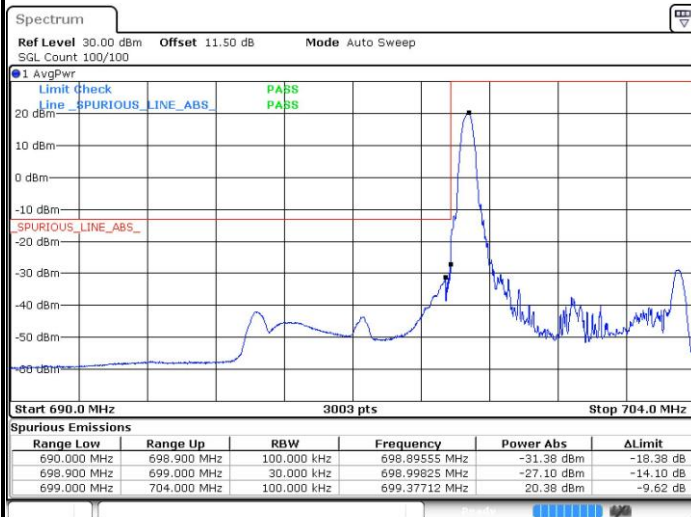
Highest Band Edge / Full RB



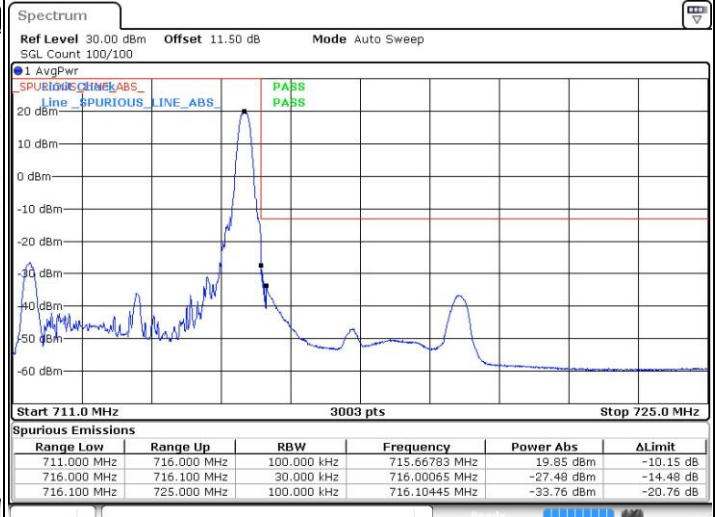


LTE Band 12 / 5MHz / QPSK

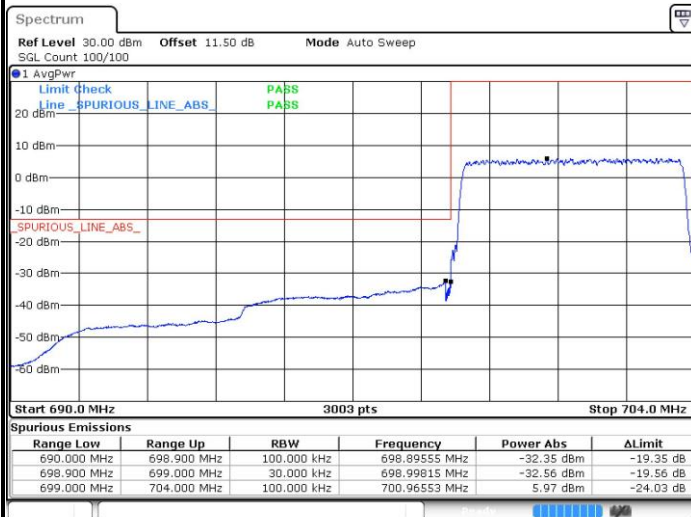
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



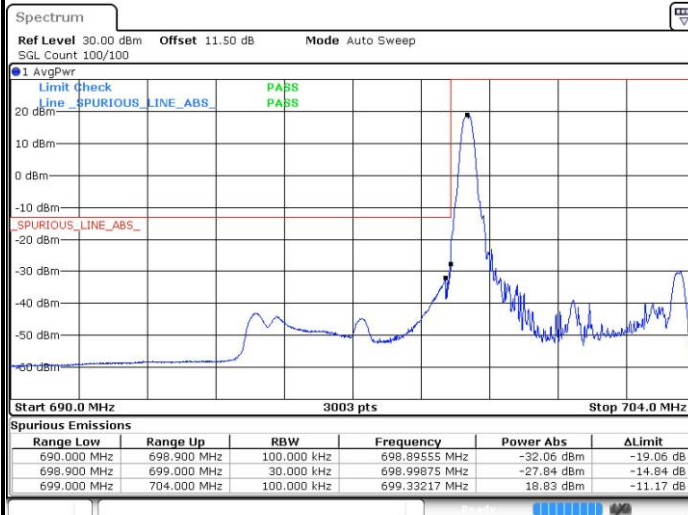
Highest Band Edge / Full RB



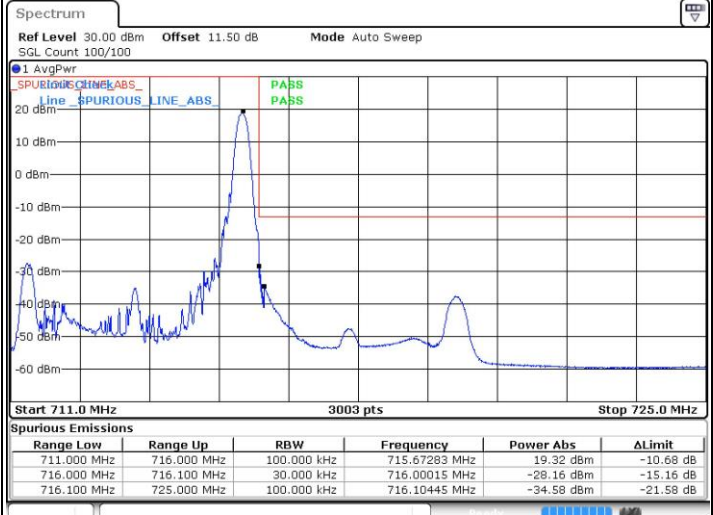


LTE Band 12 / 5MHz / 16QAM

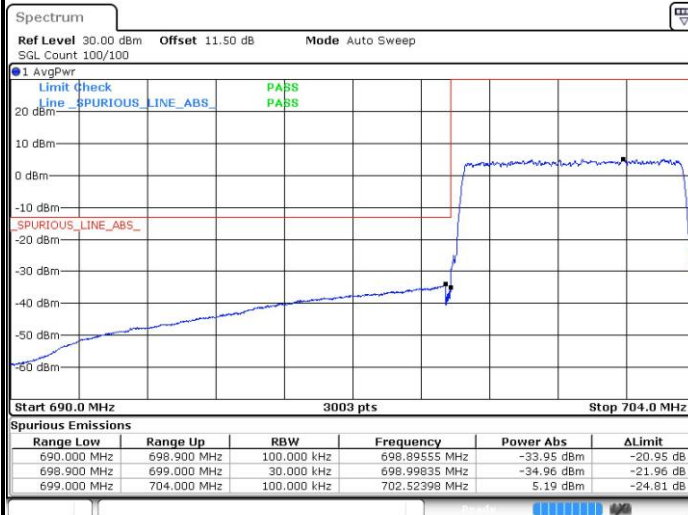
Lowest Band Edge / 1RB



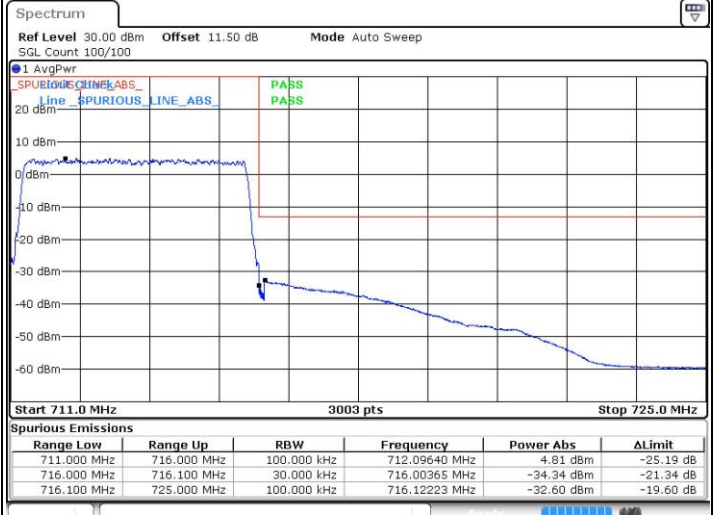
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



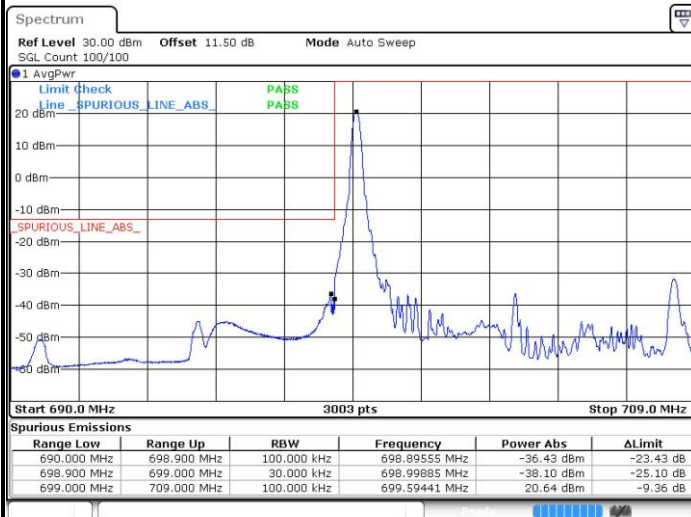
Highest Band Edge / Full RB



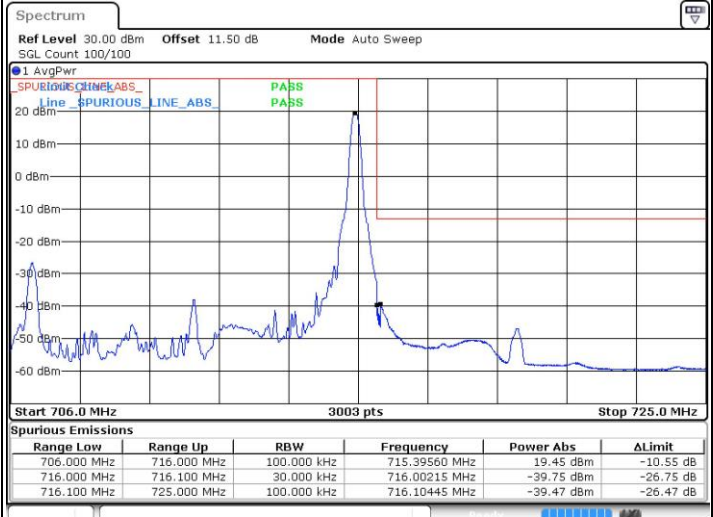


LTE Band 12 / 10MHz / QPSK

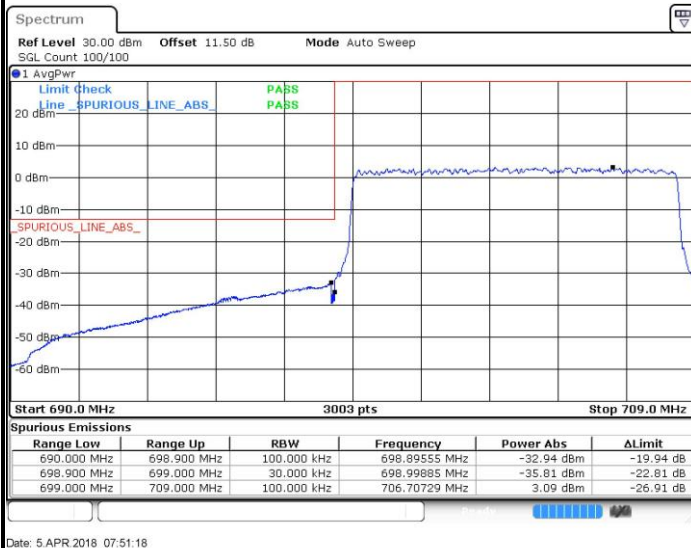
Lowest Band Edge / 1 RB



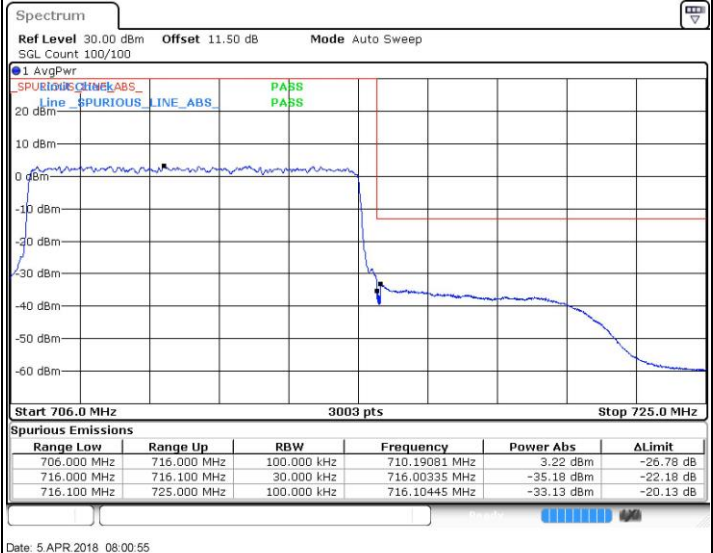
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



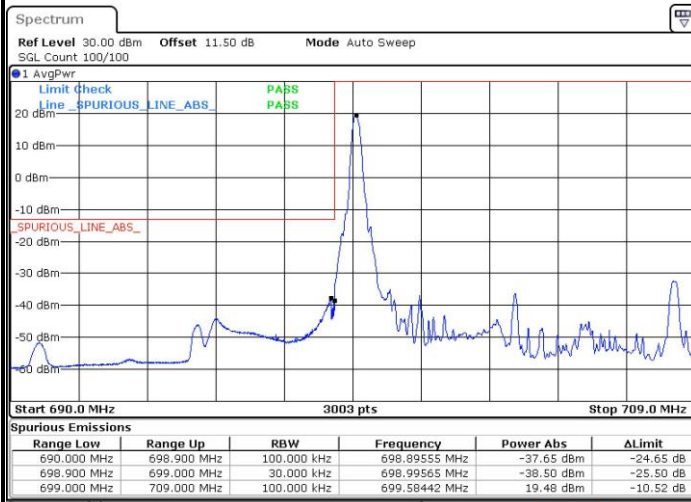
Highest Band Edge / Full RB



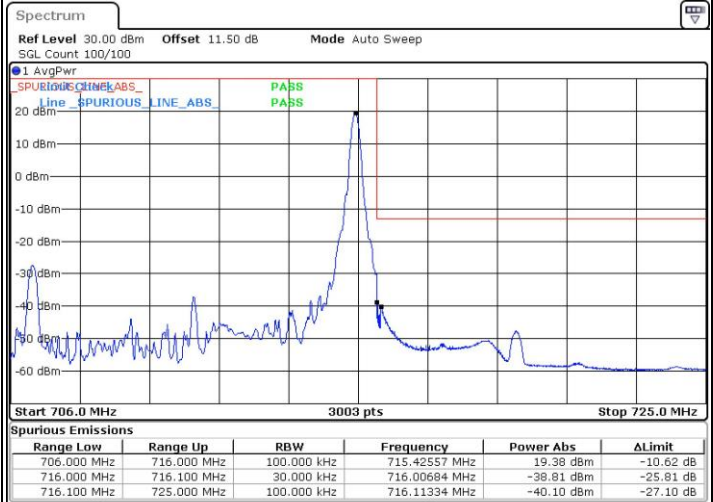


LTE Band 12 / 10MHz / 16QAM

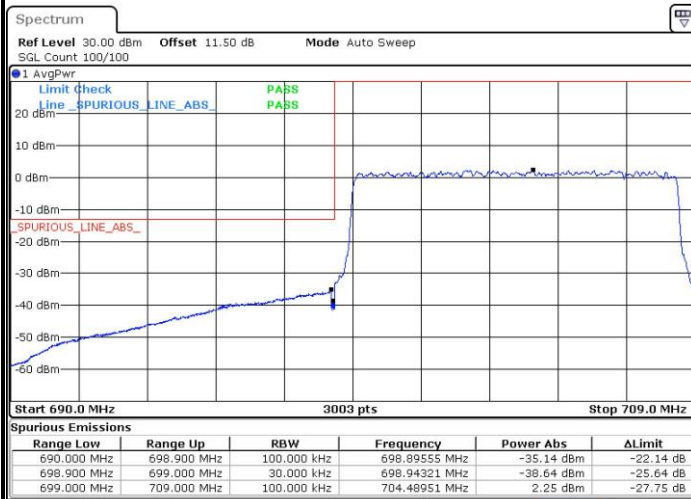
Lowest Band Edge / 1 RB



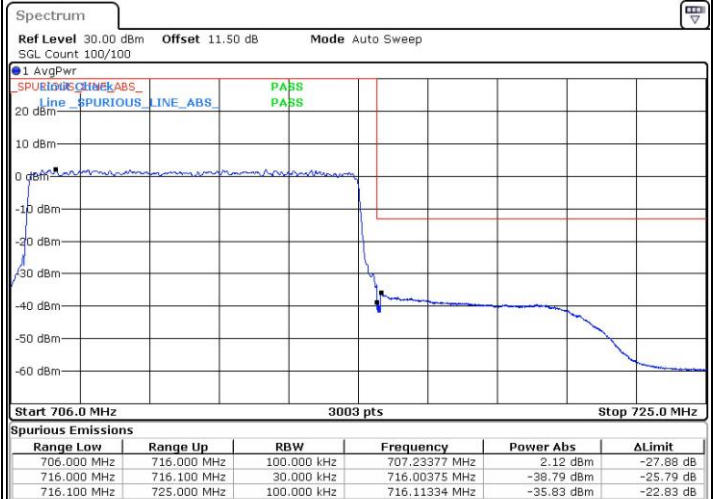
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

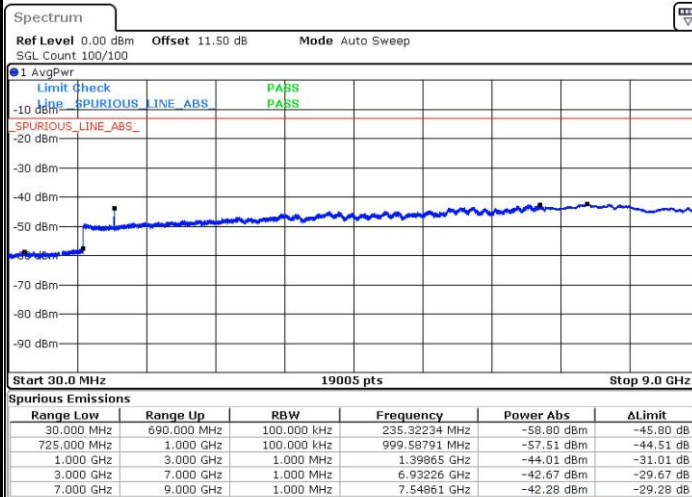




Conducted Spurious Emission

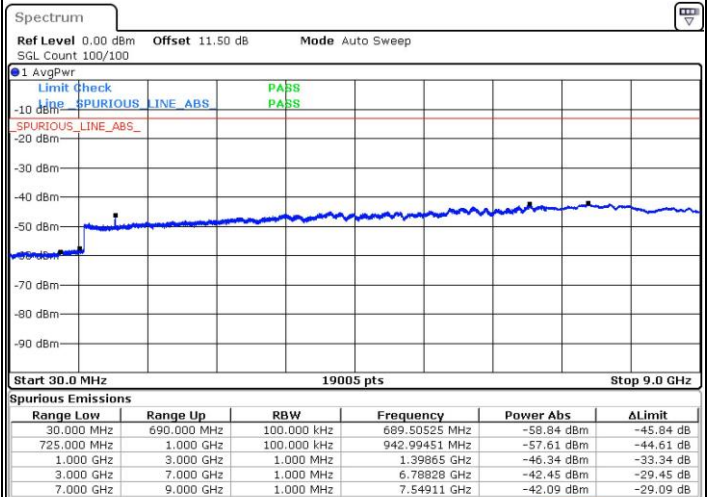
LTE Band 12 / 1.4MHz

Lowest Channel / QPSK



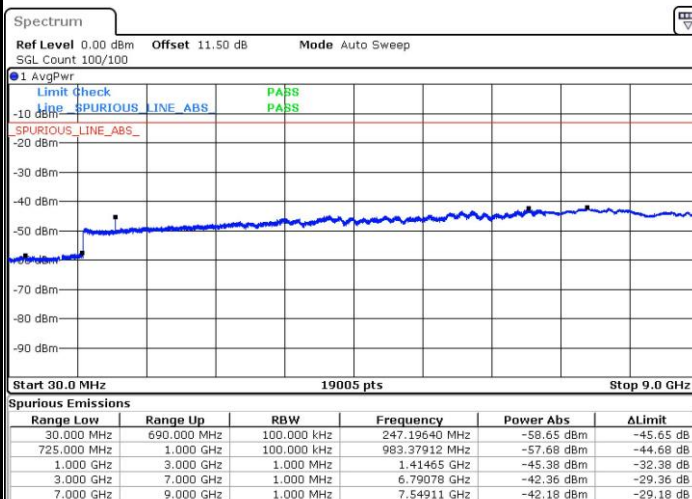
Date: 5 APR 2018 08:12:25

Lowest Channel / 16QAM



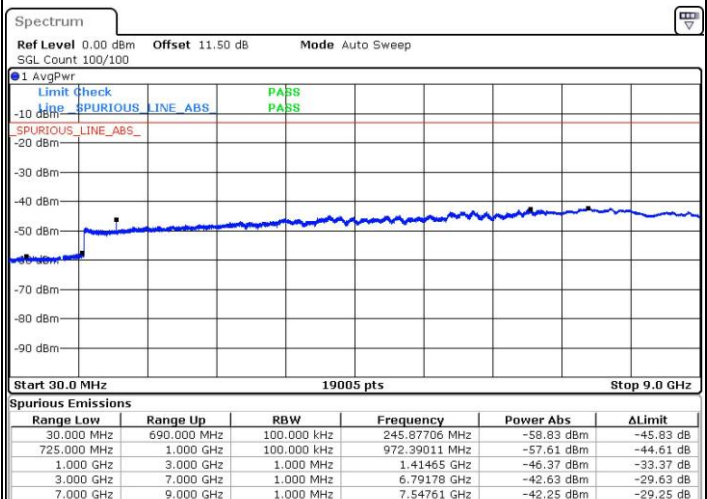
Date: 5 APR 2018 08:13:19

Middle Channel / QPSK



Date: 5 APR 2018 08:15:49

Middle Channel / 16QAM

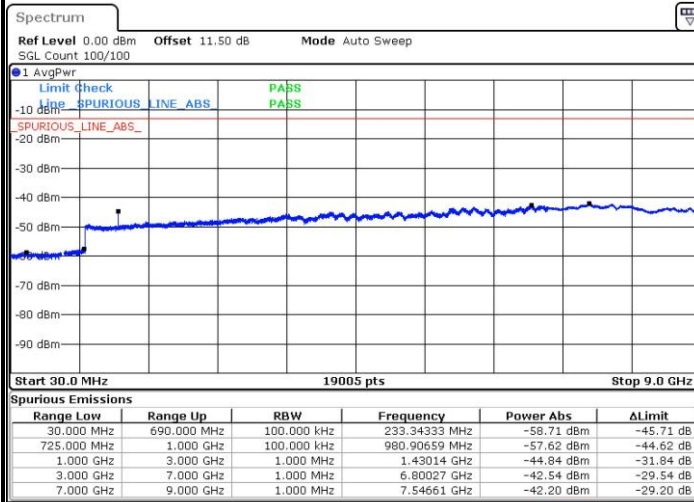


Date: 5 APR 2018 08:15:55



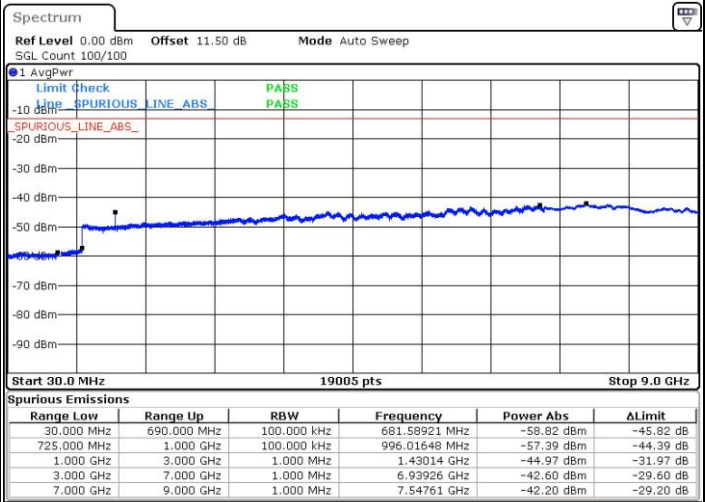
LTE Band 12 / 1.4MHz

Highest Channel / QPSK



Date: 5 APR 2018 08:22:03

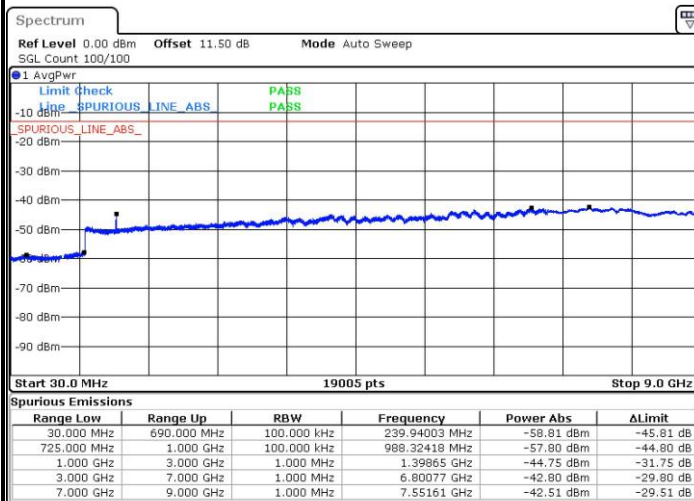
Highest Channel / 16QAM



Date: 5 APR 2018 08:22:57

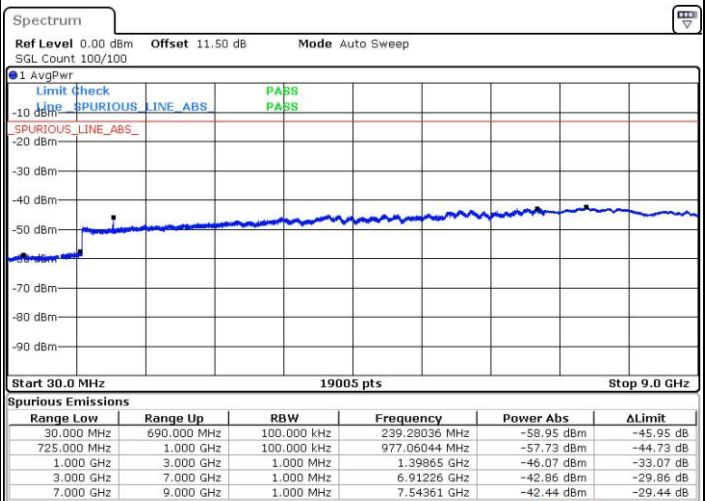
LTE Band 12 / 3MHz

Lowest Channel / QPSK



Date: 5 APR 2018 07:22:12

Lowest Channel / 16QAM

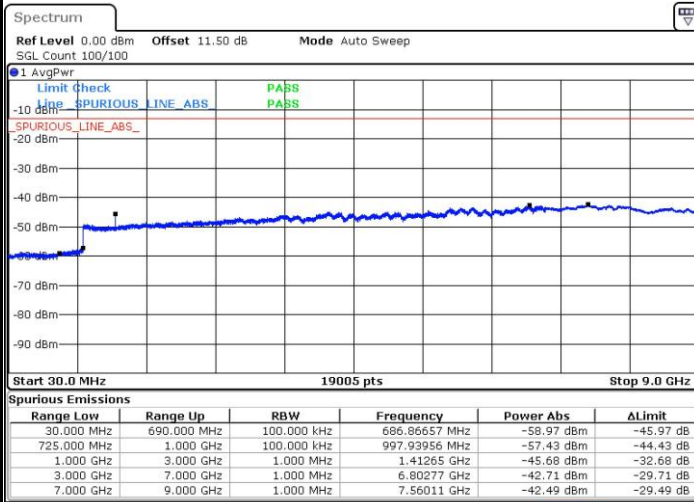


Date: 5 APR 2018 07:23:06



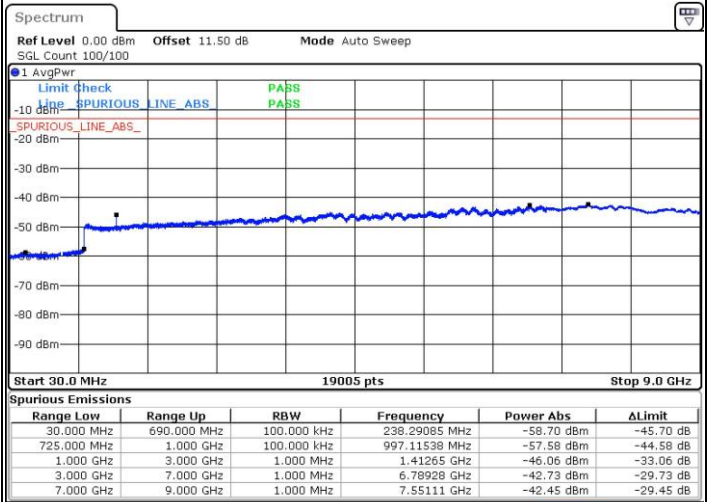
LTE Band 12 / 3MHz

Middle Channel / QPSK



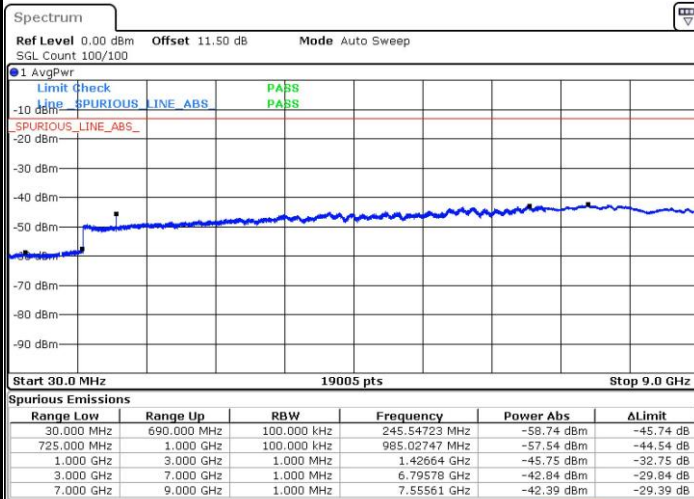
Date: 5 APR 2018 07:25:36

Middle Channel / 16QAM



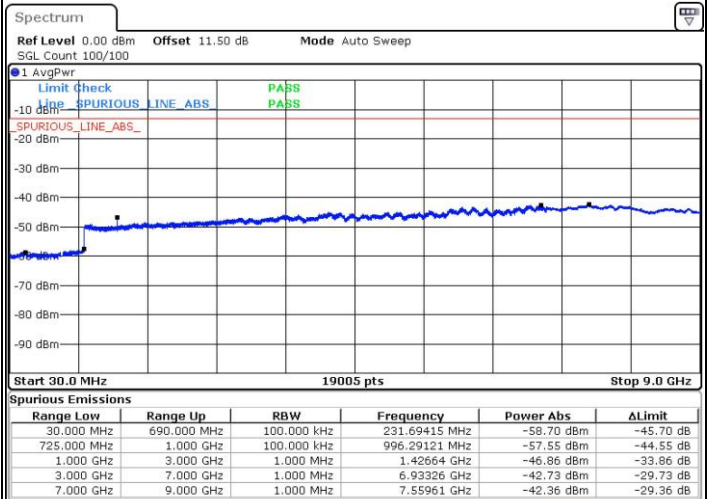
Date: 5 APR 2018 07:24:42

Highest Channel / QPSK



Date: 5 APR 2018 07:31:49

Highest Channel / 16QAM

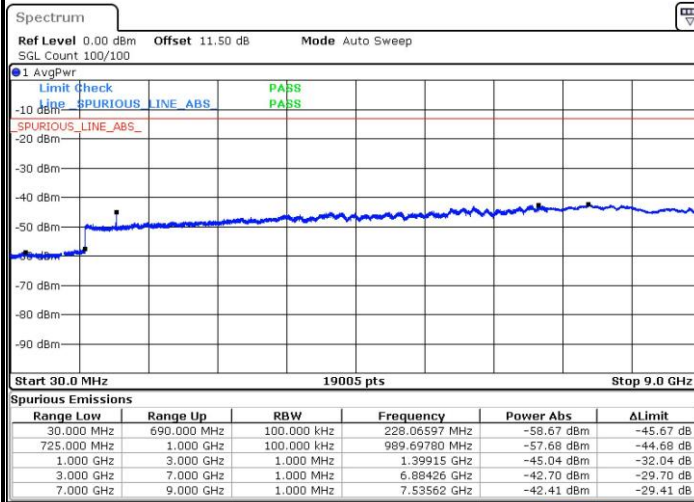


Date: 5 APR 2018 07:32:43



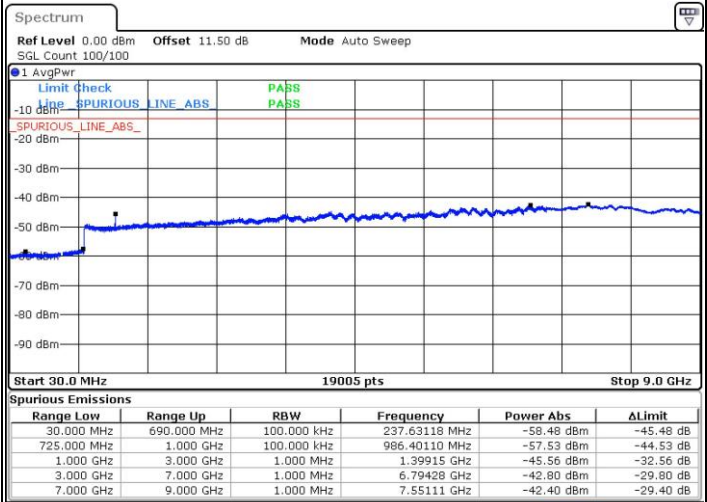
LTE Band 12 / 5MHz

Lowest Channel / QPSK



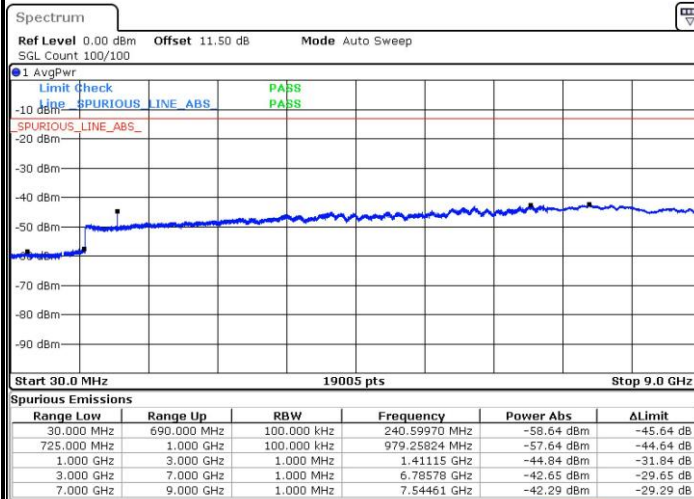
Date: 5 APR 2018 07:38:56

Lowest Channel / 16QAM



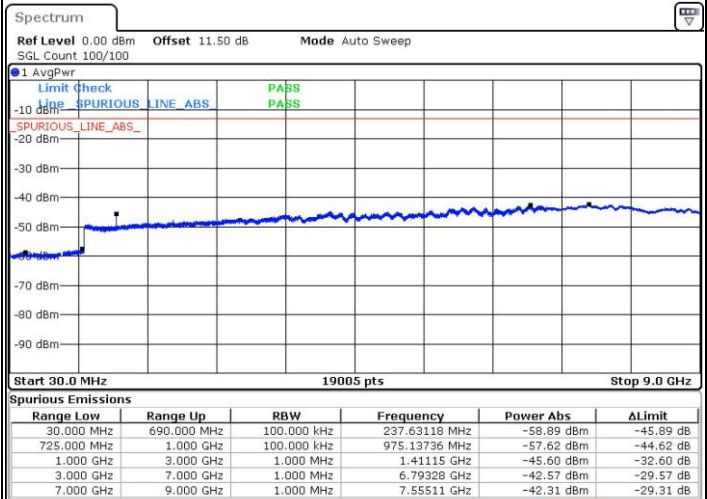
Date: 5 APR 2018 07:39:50

Middle Channel / QPSK



Date: 5 APR 2018 07:42:20

Middle Channel / 16QAM

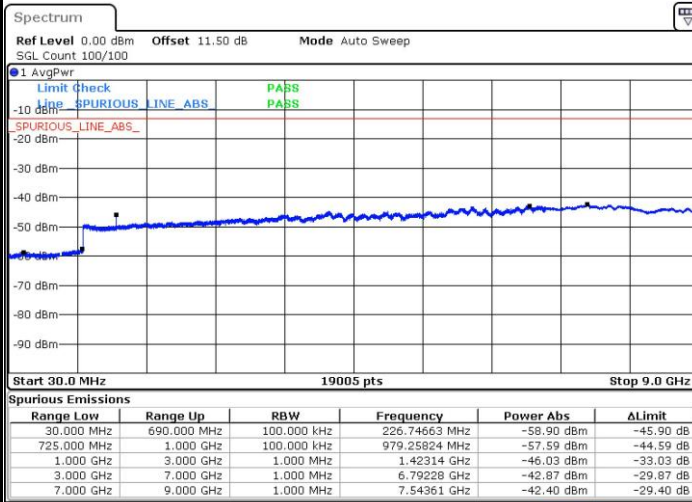


Date: 5 APR 2018 07:41:26



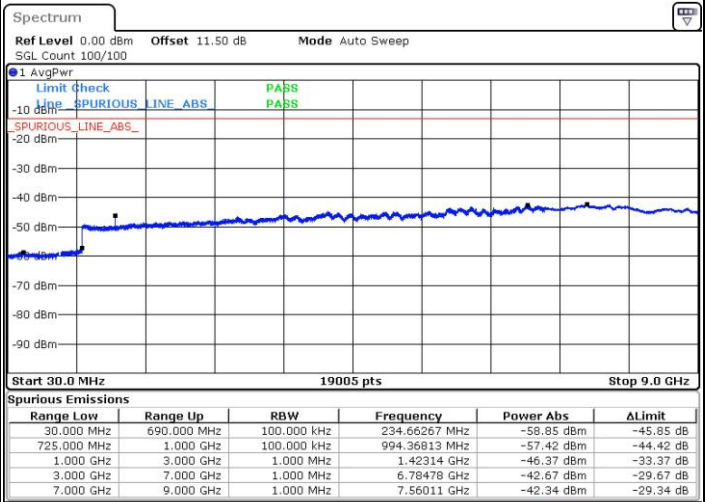
LTE Band 12 / 5MHz

Highest Channel / QPSK



Date: 5 APR 2018 07:49:27

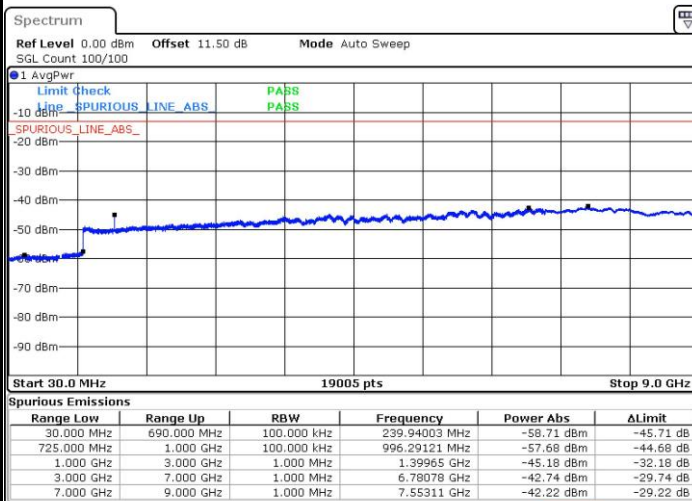
Highest Channel / 16QAM



Date: 5 APR 2018 07:48:33

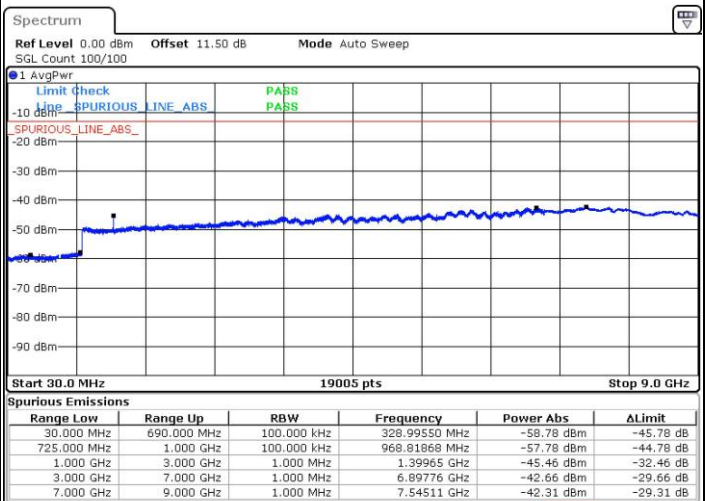
LTE Band 12 / 10MHz

Lowest Channel / QPSK



Date: 5 APR 2018 07:55:40

Lowest Channel / 16QAM

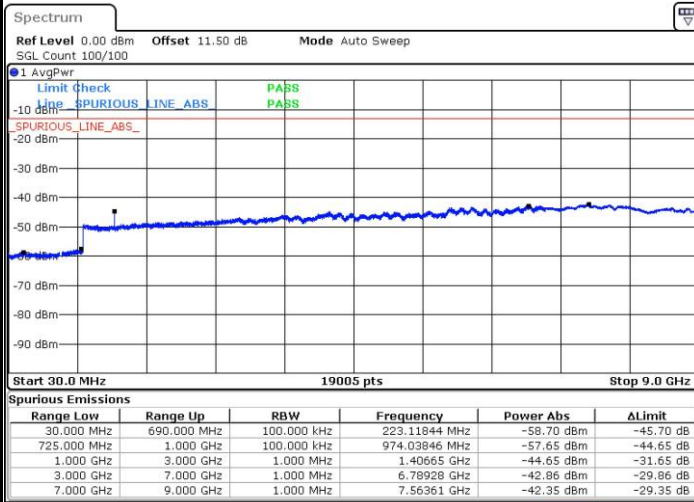


Date: 5 APR 2018 07:56:35



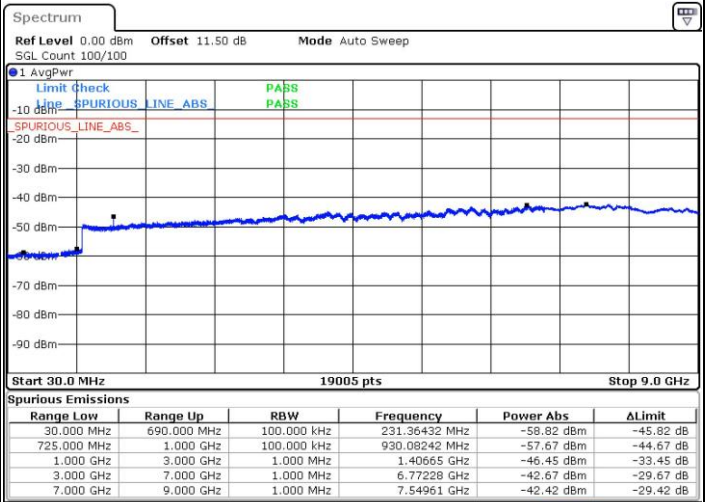
LTE Band 12 / 10MHz

Middle Channel / QPSK



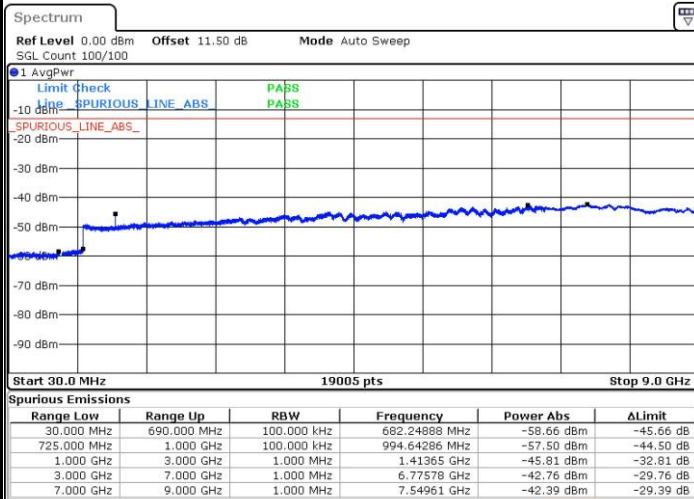
Date: 5 APR 2018 07:59:05

Middle Channel / 16QAM



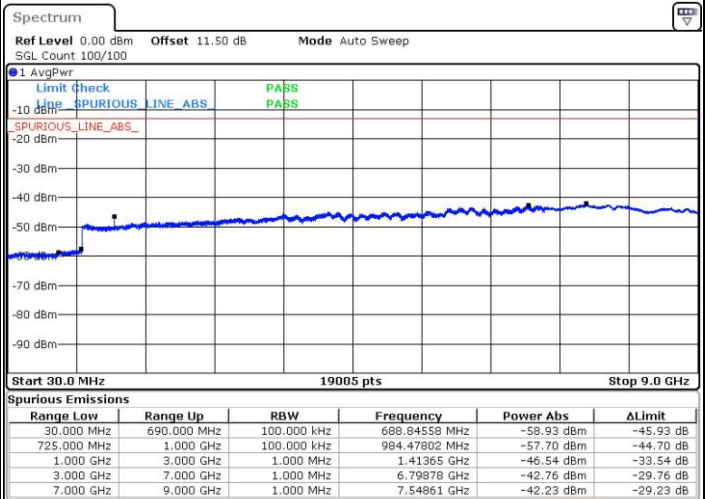
Date: 5 APR 2018 07:58:10

Highest Channel / QPSK



Date: 5 APR 2018 08:05:17

Highest Channel / 16QAM



Date: 5 APR 2018 08:06:12

Frequency Stability

Test Conditions		LTE Band 12 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0034	PASS
40	Normal Voltage	0.0054	
30	Normal Voltage	0.0016	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0061	
0	Normal Voltage	0.0082	
-10	Normal Voltage	0.0021	
-20	Normal Voltage	0.0013	
-30	Normal Voltage	0.0044	
20	Maximum Voltage	0.0027	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0089	

Note:

1. Normal Voltage =120 V. ; Battery End Point (BEP) =102 V. ; Maximum Voltage =138 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 13

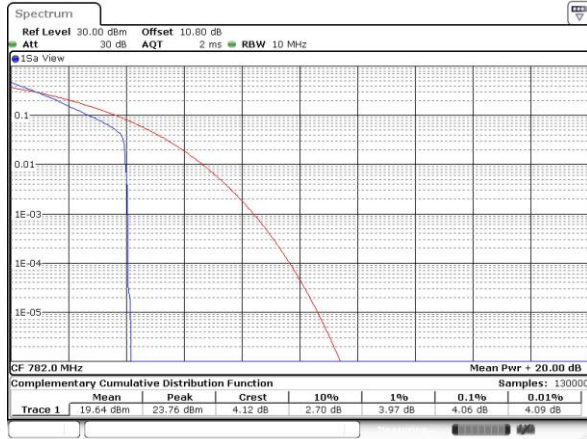
Peak-to-Average Ratio

Mode	LTE Band 13 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	-	-	-	-	PASS
Middle CH	4.06	4.78	4.93	5.74	
Highest CH	-	-	-	-	

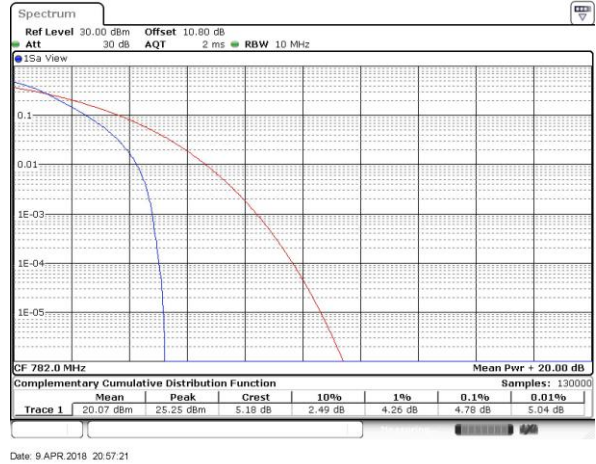


LTE Band 13 / 10MHz / QPSK

Middle Channel/ 1RB

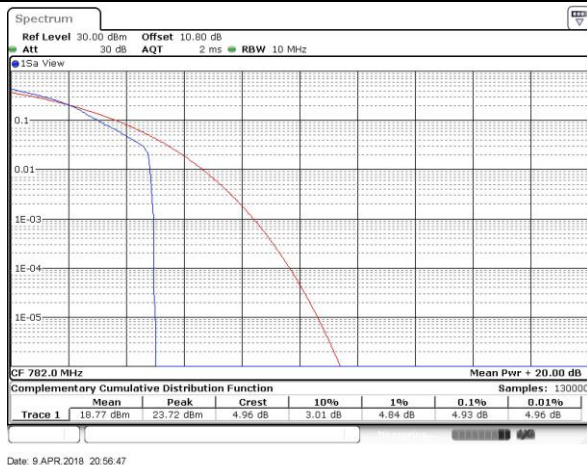


Middle Channel / Full RB

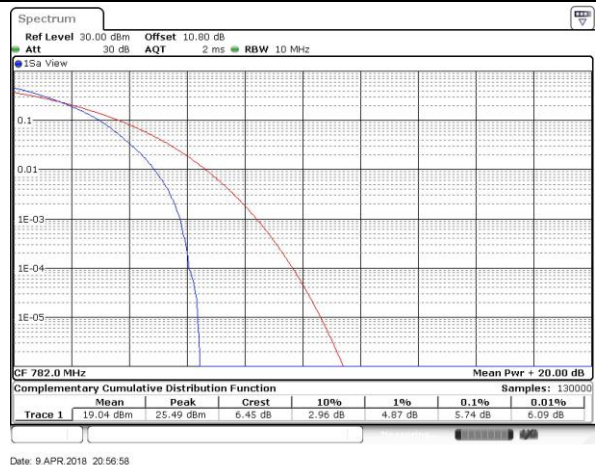


LTE Band 13 / 10MHz / 16QAM

Middle Channel/ 1RB



Middle Channel / Full RB





26dB Bandwidth

Mode	LTE Band 13 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.86	4.85	-	-	-	-	-	-
Middle CH	-	-	-	-	4.92	4.87	9.71	9.81	-	-	-	-
Highest CH	-	-	-	-	4.84	4.97	-	-	-	-	-	-